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| TRANSMITTAL | | Filing Date | | January 19, 2000 | |
| FORM | | First Named Inver | ntor | Lane, David Philip | |
| (to be used for all correspondence after initial filing) | | Group/Art Unit | | 1642 | |
| | | | Examiner Name | | Davis, Minh Tam B. |
| Total Number of Pa | ges in This Submission | | Attorney Docket N | Number | 39749-0001APC |
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE The application of: The symmetry Davis Minh Tam B

David Philip LANE

Application Serial No. 09/403,440

Filed: January 19, 2000

For: MATERIALS AND METHODS
RELATING TO INHIBITING THE
INTERACTION OF p53 AND mdm2

Davis, Minh Tam B.

Art Unit: 1642

Attorney's Docket No. 39749-0001APC

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INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

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Sir:

Listed below or on an attached Form PTO-1449 is information known to applicant(s). A copy is provided of each foreign patent, each publication other than U.S. patents and U.S. patent application publications, and each cited pending unpublished U.S. application along with a concise explanation of information in a foreign language pursuant to 37 C.F.R. §§1.97-1.98.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. Form PTO-1449 is enclosed and the Examiner is requested to initial and return it in accordance with M.P.E.P. §609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

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| | Fee Authorization. The Commissioner is hereby authorized to charge the above-referenced fees of \$180.00 and charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 08-1641 (Attorney's Docket No. 39749-0001APC). | | |
| | | Respectfully submitted, | |
| Dated: | October | By: Singer R. Dreger (Reg. No. 33,055) | |
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Attorney's Docket No. Form PTO-1449 Application Serial No. 39749-0001APC 09/403.440 Applicant(s) INFORM S YON DISCLOSURE STATEMENT **David Philip Lane** Filing Date: **Group Art Unit:** (use several sheets if necessary) January 19, 2000 1642 U.S. PATENT DOCUMENTS Examiner Ref. Date Document No. Name Class **Subclass** Filing Date Initials No. (if appropriate) 435/6 Nov. 8, 1994 5.362.623 Vogelstein, B., et al. 435/320 1. 435/6 2. May 2, 1995 5,411,860 Vogelstein, B., et al. 435/91.2 May 30, 1995 5.420.263 536/23.1 3. Burrell, M., et al. 536/23.2 4. May 21, 1996 5,519,118 Vogelstein, B., et al. 530/350 530/388.6 435/235.1 Jul. 2, 1996, 5.532.348 Huibregtse, J.M., et al. 536/23.5 5. 6. Aug. 27, 1996 5,550,023 Kinzler, K.W., et al. 435/7.1 435/7.2 Feb. 25, 1997 7. 5,606,044 Burrell, M., et al., 536/24.31 206/569 8. Apr. 8, 1997 5,618,921 Burrell, M., et al. 530/387.7 530/388.85 9. Dec. 30, 1997 5,702,908 Picksley, S.M., et al., 435/7.8 10. Jun. 23, 1998 435/7.1 5,770,377 Picksley, S.M., et al. 435/7.9 Table Must FOREIGN PATENT DOCUMENTS Ref. Class Examiner Date Document No. Name **Subclass** Translation Initials No. YES NO 11. Jan. 6, 1994 WO 94/00601 Levine, A.J., et al., C12Q 1/68 **G01N** X PCT/US93/06063 33/574 12. Apr. 14, 1994 WO 94/08241 Zentgraf, H., et al., G01N 33/574 C07K 11/00 Χ PCT/EP93/02666 13. May 11, 1994 WO 94/10306 Soussi, T., et al., C12N 15/12 C07K 7/08 Х PCT/FR93/01082 14. Mar. 23, 1995 WO 95/07934 Tekamp-Olson, P., et al., C07K 16/28 A61K X PCT/US94,10356 39/395 15. Apr. 2, 1998 WO 98/13064 Lu, X., et al., A61K 38/17 38/41 Χ PCT/GB97/02318 OTHER DOCUMENTS (including author, title, date, pertinent pages, etc.) Ref. Title **Examiner** Initials No. Ball, K.L., et al., "Cell-cycle arrest and inhibition of Cdk4 activity by small peptides based on the carboxy-terminal 16. domain of p21WAF1", Current Biology, Vol. 7, pp. 71-80, 1996. 17. Barak, Y., et al., "mdm2 expression is induced by wild type p53 activity", The EMBO Journal, Vol. 12, pp. 461-468, 1993. Barak, Y., et al., "Enhanced binding of a 95 kDa protein to p53 in cells undergoing p53-mediated growth arrest", The 18. EMBO Journal, Vol. 11, pp. 2115-2121, 1992. Blommers, M.J.J., et al., "On the Interaction Between p53 and MDM2: Transfer NOE Study of a p53-Derived Peptide 19. Ligated to MDM2", J. Am. Chem. Soc., Vol. 119, pp. 3425-3426, 1997. 20. Böttger, A., et al., "Molecular Characterization of the hdm2-p53 Interaction", J. Mol. Biol., Vol. 269, pp. 744-756, 1997. Böttger, V., et al., "Comparative study of the p53-mdm2 and p53-MDMX interfaces", Oncogene, Vol. 18, pp. 189-199. 21. 1999. Brown, D.R., et al., "The Tumor Suppressor p53 and the Oncoprotein Simian Virus 40 T Antigen Bind to Overlapping 22. Domains on the MDM2 Protein", Molecular and Cellular Biology, Vol. 13, pp. 6849-6857, 1993. EXAMINER: DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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Sheet 1 of 1 Form PTO-1449 Attorney's Docket No. Application Serial No. 39749-0001APC 09/403.440 INFORMATION DISCLOSURE STATEMENT Applicant(s) **David Philip Lane** Filing Date: **Group Art Unit:** (use several sheets if necessary) **January 19, 2000** 1642 Cahilly-Snyder, L., et al., "Molecular Analysis and Chromosomal Mapping of Amplified Genes Isolated from a Transformed Mouse 3T3 Cell Line", Somatic Cell and Molecular Genetics, Vol. 13, pp. 235-244, 1987. Chen. J., et al., "Mapping of the p53 and mdm-2 Interaction Domains", Molecular and Cellular Biology, Vol. 13, pp. 4107-24. 4114, 1993. 25. Chorev, M., et al., "A Dozen Years of Retro-Inverso Peptidomimetics", Acc. Chem. Res., Vol. 26, pp. 266-273, 1993. Crystal, R.G., "Transfer of Genes to Humans: Early Lessons and Obstacles to Success", Science, Vol. 270, pp. 404-410. 26. 1995. Deffie, A., et al., "The Tumor Suppressor p53 Regulates Its Own Transcription", Molecular and Cellular Biology, Vol. 13, 27. pp. 3415-3423, 1993. Derossi, D., et al., "The Third Helix of the Antennapedia Homeodomain Translocates through Biological Membranes", 28. The Journal of Biological Chemistry, Vol. 269, pp. 10444-10450, 1994. Dyson, N., et al., "Adenovirus E1A Makes Two Distinct Contacts with the Retinoblastoma Protein", Journal of Virology, 29. Vol. 66, pp. 4606-4611, 1992. Dyson, N., et al., "Homologous Sequences in Adenovirus E1A and Human Papillomavirus E7 Proteins Mediate 30. Interaction with the Same Set of Cellular Proteins", Journal of Virology, Vol. 66, pp. 6893-6902, 1992. Farmer, G., et al., "Wild-type p53 activates transcription in vitro", Nature, Vol. 358, pp. 83-86, 1992. 31. Funk, W.D., et al., "A Transcriptionally Active DNA-Binding Site for Human p53 Protein Complexes", Molecular and 32. Cellular Biology, Vol. 12, pp. 2866-2871, 1992. Gannon, J.V., et al., "Activating mutations in p53 produce a common conformational effect. A monoclonal antibody 33. specific for the mutant form", The EMBO Journal, Vol. 9, pp. 1595-1602, 1990. García-Echeverría, C., et al., "Structure-Activity Studies of Peptide Inhibitors of the p53-HDM2 Interaction", Oncology 34. Kern, S.E., et al., "Oncogenic Forms of p53 Inhibit p53-Regulated Gene Expression", Science, Vol. 256, pp 827-830, 35. 1992. Lane, D., "Interruption of binding of MDM-2 and p53 protein; potential for the treatment of cancer", Exp. Opin. Ther. 36. Patents, Vol. 6, pp. 805-809, 1996. Lane, D., et al., "On the regulation of the p53 tumour suppressor, and its role in the cellular response to DNA damage". 37. Phil. Trans. R. Soc. Lond., B, Vol. 347, pp. 83-87, 1995. Lee, H.S., et al., "Molecular Characterization of nosA, a Pseudomonas stutzeri Gene Encoding an Outer Membrane 38. Protein Required To Make Copper-Containing N₂O Reductase", Journal of Bacteriology, Vol. 173, pp. 5406-5413, 1991. Lees-Miller, S.P., et al., "Human DNA-Activated Protein Kinase Phosphorylates Serines 15 and 37 in the Amino-Terminal 39. Transactivation Domain of Human p53", Molecular and Cellular Biology, Vol. 12, pp. 5041-5049, 1992. Lin, J., et al., "Functions of the p53 Protein in Growth Regulation and Tumor Suppression", Cold Spring Harbor 40. Symposia on Quantitative Biology, Vol. LIX, pp. 215-223, 1994. Lin, J., et al., "Several hydrophobic amino acids in the p53 amino-terminal domain are required for transcriptional 41. activation, binding to mdm-2 and the adenovirus 5 E1B 55-kD protein", Genes & Development, Vol. 8, pp. 1235-1246. 1994. Lin, Y., et al., "Inhibition of Nuclear Translocation of Transcription Factor NF-kB by a Synthetic Peptide Containing a Cell Membrane-permeable Motif and Nuclear Localization Sequence", The Journal of Biological Chemistry, Vol. 270, pp. 42. 14255-14258, 1995. Liu, X., et al., "The p53 Activation Domain Binds the TATA Box-Binding Polypeptide in Holo-TFIID, and a Neighboring 43. p53 Domain Inhibits Transcription", Molecular and Cellular Biology, Vol. 13, pp. 3291-3300, 1993. Martin, K., et al., "Stimulation of E2F1/DP1 transcriptional activity by MDM2 oncoprotein", Nature, Vol. 375, pp. 691-698. 44. 1995.

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Oncogene, Vol. 18, pp. 1921-1934, 1999.

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